



Traffic Systems Operations Specialist

First Review: May 5, 2011

Salary: \$65,755—\$79,925 Annually

Selection Process

First Application Review May 5, 2011

Each candidate's background will be evaluated on the basis of information submitted at the time of application to determine the level and scope of the candidate's preparation for this position.

The application process requires an application, completed Supplemental Questionnaire, and a detailed resume. Only the more qualified applicants will be invited to participate in the selection process.

How to Apply

We encourage you to use the city's online application process. Interested candidates can apply for this position and obtain additional information at:

www.carlsbadca.gov

City of Carlsbad HR Department

1635 Faraday Ave.

Carlsbad, CA 92008

Phone 760-602-2440

Fax 760-602-8554

hr@carlsbadca.gov

Please note that references will not be contacted until the very end of the process and with the permission of the candidate.

*The City of Carlsbad is an Equal Opportunity/
ADA Employer and values diversity at all levels
of the organization.*



Supplemental Questionnaire

Instructions: Please type and number your responses to the following questions. Respond to each question concisely. Include the following statement, your signature and the date at the bottom of your questionnaire, "I declare the statements on this application and questionnaire are true and complete to the best of my knowledge and belief."

1. Briefly describe your experience, education, and training related to maintaining traffic signal and traffic telecommunications devices.
2. Please outline your related training and experience using advanced traffic management software to monitor and optimize traffic signal performance (note: the city of Carlsbad is expected to develop a traffic responsive traffic signal system utilizing 170 controllers linked to the QuicNet advanced traffic management software).
3. Describe your technical experience related to the installation of wireless, Ethernet over copper, and fiber optic communication lines.

Compensation and Benefits

The salary for this position is \$65,755—\$79,925 depending upon the qualifications and experience of the selected candidate. In addition, the City provides benefits including: medical, dental and life insurance; paid leave, including: holidays, vacation, sick leave; a deferred compensation program; and participation in the CalPERS Retirement Plan.

CARLSBAD, *California*

Carlsbad is for those who appreciate the many benefits and pleasures of living, working or simply spending time in a community that sets high standards for itself.

The city is ideally situated in north San Diego County where a great climate, beautiful beaches, lagoons, and abundant natural open space, combine with world class resorts, family attractions, well-planned neighborhoods, a diverse business sector and a charming village atmosphere combine to create the ideal California experience.

Covering nearly 42-square miles, the City of Carlsbad is approaching build out and is currently home to nearly 107,000 residents. Thanks to an award winning growth management plan, the city features infrastructure and services that keep pace with development and promote an excellent quality of life. Fully 40 percent of the city has been set aside as permanent open space.

The City of Carlsbad is recognized by the San Diego Society for Human Resources Management and the Employers Group for Workplace Excellence and was named one of the best places to work in San Diego.

About the Position

Under minimal supervision, the **Traffic Systems Operations Specialist** will operate and maintain the computerized traffic signal system; review and critique system software; install, configure and maintain devices related to traffic signal configurations, timing and connecting to a centralized Traffic Management Center; develop signal timing and response plans with computer based optimization.

Education and Experience

- Bachelors of Science degree in engineering, computer science or related field; or education in electronic equipment and electrical technology with five years of professional experience with traffic communication systems.
- Experience: Journey level professional traffic systems engineering experience working with computerized traffic signal control systems, Ethernet over copper and wireless technologies.
- Possession of a valid California Driver's License.
- International Municipal Signal Association (IMSA) Level I certification within one year of appointment.
- IMSA Level II certification, Transportation Operations Specialist certification from Institute of Transportation Engineers (ITE) is highly desirable.

Key Responsibilities

Responsibilities and duties may include:

- Expedite successful installations of traffic signal and communication equipment via participation on inspection teams; complete acceptance testing.
- Incorporate system diagnostic capabilities; assist technicians with troubleshooting field components such as detector operations and communications.
- Establish, monitor and evaluate traffic system performance and benefits for central control software including closed loop, distributive and adaptive type systems.
- Document the Traffic Management Center traffic control and communications systems.
- Operate and monitor the automated traffic signal control system and ITS field components during daily and special event operations.
- Review and analyze traffic characteristics in the system; prepare timing plans and strategies; assist in developing and reviewing special event plans and system expansion plans; develop a migration to relocate the communications infrastructure.
- Compile data for and prepare a variety of related technical reports .
- Inspect, diagnose and determine extent of necessary repairs of traffic signal system for referral to contractor or in-house repair.
- Assist with design and implementation of traffic signal projects and coordinate outside vendors and agencies as needed.
- Perform signal timing and fine-tuning in the field; develop and enhance signal control software for embedded systems.
- Train and assist system users.

**Pending City Council approval of job classification. For a more detailed description and list of example duties, please see the full job description on our website: www.Carlsbadca.gov*

